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(54) PRODUCTION OF CURED FIBER-REINFORCED PHENOL RESIN

(57)Abstract:

PURPOSE: To obtain the titled cured product having excellent mechanical strength, by impregnating a fibrous reinforcing material with a mixture consisting of a resol-type liquid phenol resin, a curing agent consisting of a sulfonated phenol resin and phosphoric acid and, if necessary, a filler and curing the impregnated reinforcing material.

CONSTITUTION: The titled cured product is produced by impregnating a fibrous reinforcing material with a mixture consisting of (A) a resol-type liquid phenol resin, (B) a curing agent consisting of 90W25wt% (as solids) sulfonated phenol resin, degree of sulfonation (number of sulfonic groups/total number of phenol nuclei $\times 100$) 10W100, and 10W75wt% (phosphoric acid concentration is regarded as 100%) phosphoric and, if necessary, additives such as fillers, release agents, and coloring agents, and curing the impregnated resin by allowing the resin to stand at normal to medium temperature. By a combined use of curing agent B, an appropriate pot life is obtained. This provides good operability. After infiltrated into fibrous reinforcing materials, the resin cures rapidly and provides a cured resin excellent in mechanical strength, heat resistance and flame retardancy.

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